

What is a boost high-voltage nanosecond pulse generator?

In the article, a new type boost high-voltage nanosecond pulse generator is proposed. The distributed inductance of the transmission line is utilised as the energy storage unit and cooperated with the variable impedance transmission line transformer to generate nanosecond pulses with extremely high-voltage gain.

Is there a high-voltage ultrashort pulse power module (hvuppm)?

Abstract: The biological response to short pulses with a width on the order of ten nanoseconds is still blur for lacking of a dependable high-voltage ultrashort pulse power module (HVUPPM). Therefore, this article introduces a HVUPPM with high output/input voltage gain and high repetition rates.

What is high-voltage square-wave nanosecond pulse generator?

Abstract: High-voltage square-wave nanosecond pulse generator has a broad application prospect in the fields of atmospheric low-temperature plasma, biomedicine and power equipment detection. Pulse forming line is an effective way to realize high-voltage square-wave nanosecond pulse output.

What is a solid-state high voltage high repetitive pulse generator?

Solid-state high voltage high repetitive pulse generators have a broad prospect in various applications. The high power and high-frequency operation of the pulse generator suffer from the massive heat dissipation problem, which limits the improvement of the output parameters and even affects the lifetime.

What is a modular high-voltage pulse generator based on?

In [21,22], a modular high-voltage pulse generator based on power electronic converters was proposed. A transformer is used in each module, which increases the pulse amplitude by increasing the number of modules and the transformer ratio.

What is a high-voltage nanosecond pulse generator (hvnpg)?

Recent years, high-voltage nanosecond pulse generators (HVNPG) have been widely used in industrial or medical fields [1, 2], such as atmospheric pressure low-temperature plasma, electrical tumour ablation [4, 5] and other high-voltage pulse applications.



# High voltage pulse energy storage element



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